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ABSTRACT

This report concerns a comparison of the course and teacher evaluation for used by New College of Hofstra with another form recently developed for use in other units of Hofstra University. The comparative analysis is based on data derived from administration of the Hofstra University Course and Teacher Evaluation Questionnaire and the New College Evaluation Questionnaire to 368 New College respondents at the conclusion of the spring semester 1974. The purpose of this study was to compare results on the two forms to determine: (1) if similar information was gained from the two forms, (2) if one or the other of the forms alone provided information appropriate to the needs of New College, and (3) if in the future it would be necessary to administer both forms. Overall, it might be concluded that the two forms do get at basically the same information, since significant correlations do exist between many items and many items do have "face" or content similarity. Yet, as previously indicated, such higher correlations might have been expected among certain items that are in fact identical. The possibility of some systematic bias in responding, as suggested by the review of individual respondee sheets, and by the relatively low intercorrelations between forms with relatively high interacorrelations between items on the same form, limits any extensive interpretation of comparability of forms. Reproduced from best available copy. (Author/PG)



A COMPARISON OF TWO COURSE EVALUATION FORMS: THE HOFSTRA UNIVERSITY COURSE AND TEACHER EVALUATION QUESTIONAIRE AND THE NEW COLLEGE COURSE EVALUATION QUESTIONAIRE

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INTRODUCTION

Take report concerns a comparison of the course and teacher evaluation form used by New College of Hofstra with another form recently developed at the other was to describe University. The comparative analysis is based on data derived from administration of the Hofstra University Course and Teacher Evaluation Questionaire (hereafter referred to as Form H) and the New College Course Evaluation Cuestionaire (hereafter referred to as Form N) to 368 New College respondents at the conclusion of the Spring semester, 1974.

The current edition of the New College questionaire (Form N) has been used for evaluation of courses by students for the past year. Similar questionaires were used in the previous academic year, 1972-73 and, in general, New College has experimented with a variety of different forms since 1969. The Hofstra University questionaire, (Form H) was developed during the current academic year and was administered voluntarily in a number of courses at the end of the Fall semester, 1973-74. Form H was then to be administered in all undergraduate courses at Hofstra University during the Spring semester.

Each of the evaluation forms has been designed with specific purposes or audiences in mind. Form H was developed in response to student requests for an "objective" evaluation of instructors and courses. At its March 15, 1974, meeting, the University Faculty voted to make administration of the questionaire mandatory in all undergraduate courses. This motion and decision were made with particular reference to Faculty Policy Series #15 which states, in part, that student evaluations and student opinions may be used in making tenure decisions for Faculty. Consequently, the use of Form H appears to serve two purposes: first, to provide information to students regarding faculty and courses, and, secondly, to provide a uniform system for collecting student opinions to be used by appropriate parties in making personnel decisions regarding individual faculty.1

Form N represents the current means by which New College implements its long standing practice of faculty and course evaluation. The New College faculty and administration have agreed on the following uses of evaluation results:

¹ It is interesting to note that while administration of the questionaire (De. H) is now would were in all united points courses, the results need not necessarily be used in tenure decisions. Faculty Policy Series #15, IV, a. (b) states, "any opinion the candidate may wish to present for inclusion in the file of the proceedings of the tenure committee to support his candidacy, such as student evaluations . . ." (underscoring ours)



(a) to provide information and feedback to the faculty member about perceptions of his course by students, (b) to provide the New College Dean's Utrice and appropriate faculty with an evaluation of the offertile of the verticus provides a vectific the College, and (c) to provide information about contributions of new and/or experimental

form is handled by the New College Educational Research Office and is mandatory for all courses. The Dean and faculty of New College, will not be used in personnel decisions unless the faculty person voluntarily and at his/her initiative submits the material for such use.

PURPOSE OF THIS STUDY

because of the mandatory status of the University questionaire (form H) and for continuity of program evaluation at New College, New College administered both Forms H and N at the conclusion of the Spring semester. The purpose of this study was to compare results on the two forms to determine (1) if similar information was gained from the two forms, (2) if one or the other of the forms alone provided information appropriate to the needs of New College, and (3) if, in the future, it would be necessary to administer both forms.

METHODILOGY

Subjects and administration

Both Forms H and N were administered to 368 respondents in 34 classes at New College. Students completed the two questionaires on the same Opscan answer sheet so that pairwise comparisons could be made. Most respondents were familiar with Form N since they had completed this form on three previous occasions during the year. No special instructions were given with reference to the completion of Form H with the exception that the students were cautioned several times to read the University Form instructions carefully and to be aware of the direction of the scaling.²

Data analysis

The first step in the data analysis was to identify pairs of questions on the two forms which were similar. This was accomplished in two ways. First, the investigators reviewed the questions on each form in terms of their content and apparent "face" similarity. Then, Pearson Product Moment correlations were calculated for each pair of questions. (The resultant pairing of questions as listed in Table I are the final result of these procedures taken together.)

To determine the dimensions involved in the questionaires, a factor analysis was performed on each questionaire. This procedure is completed

² The problem of assumed reversal of scaling will be discussed later in this report.



regularly after each administration of the New College Form.

RESULTS AND DISCUSSION

Comparability of Information

A pairwise comparison was postormed among the 22 questions on the University Form and the 18 evaluative questions on the New College Form. Because of the method of scaling (where 3 is a "perfect" score instead of 5) questions 17-19 on Form H are not discussed in the analysis. Also because the perfecting discussed in the forms, all the resulting correlations between forms are reversed on the car be interpret domain that the perfect of the correlations between forms are negative but

To provide a frame of reference for interpreting correlation coefficients between forms, intracorrelations of items on the same form were also reviewed. It was noted that there were an unexpectedly high number of high correlations and the questions on Form H. Omitting questions 17-19 because of scaling problems, nineteen questions remained. Choosing an arbitrary correlation level of .70, there were 32 pairs of questions on Form H which exceeded that level. By comparison, Form N had only 17 pairs which exceeded .70.

On the other hand, few high correlations between questions on the different forms were found. The highest correlation was -.51 between "Overall rating of the instructor inside the classroom" (Form N) and "Would you take another course with this instructor?" (Form H). The majority of coefficients centered around -.30 with a range of -.01 to -.51. Because of the sample size, almost all correlations above -.20 were significant at the .001 level.

Table I provides a list of potentially comparable items on the two forms along with the resulting correlation coefficients between the items. This list was initially determined on the basis of "face" similarity of items. Then, any items which correlated at -.35 or higher were added. As indicated within the Table, some items on Form N (3, 4, 13, and 16) had no comparable questions on Form H and no correlations as high as -.35. Similarly, the same is true of items on Form H (10, 11, 16, 18, and 22). Items 7 ("How valuable was the exam(s) to you as a learning tool?") and 11 ("Was and approportate level of prior knowledge assumed?") on Form N had comparable items on Form H but could not be evaluated because of the different scaling systems used for the



TABLE I

Comparison of questions on Form N and Form H

Question #		<u>r*</u>
Fold N	local H	
1	1	30
	2	41
	2 3 8 9	20
	8	42
		44
•	15	40
2	4	 33
	5	32
3 ·	no comparable question	
3 4	no comparable question	
5	12	29
6	12	29
7	. 17	no comparable data because o scaling difference
8	1	42
	2	45
	1 2 3 7 8 9	18
	7	25
	8	42
	9	51
	10	28
	11	34
9	6	45
10	1	43
	2	45
	1 2 3 8 15	17 44
	8	44
•	15	43
11	19	no comparable data becaus of scaling difference
12	13	37
	13 15	47
	8	44
13	15	39
14	14	30



TABLE I continued

Question w		k %
FOR4 N	FORM H	• "
15	20	~. ?"
16	no comparable item	
17	1	42
	2	41
•	4	32
	8	37
	9	 50
	13	37
	17	- , 3 €
•	15	44
18	1	39
	1 2 7 8	39
	7	37
	8	46
	13 .	38
	14	35
	15	45

^{*} p4.001 for all r's reported.



Given the "face" similarity between many of the questions, the resultant correlations are lower than might have been expected. On one question which was virtually identical on both forms - "Availability of instructor outside the classroom" (Form E) compared to "Outside the class the instructor was: available to unavaiable" (Form E) - the correlation was -.4... Since the came according the same point in time, the resultant correlation might have been expected to more closely approximate 1.00. The fact that it did not suggested that some systematic bias may have been operating.

A review of individual response sheets of some students revealed that in several cases students led rated one item "most positively" (e.g. "A" on form N), and the similar item as "most negative" on the other for a lated it fill the students of the scaling. The scaled values on reverse his ratings in such a way, the most probable explanation has to do with the directionality of the scaling. The scaled values on Form H run from 5 (most positive) to 1 (most negative). These values run horizontally from left to right, whereas the values on the Opscan sheet run vertically from 1 to 5. Furthermore, there may be, in the minds of some students, a "psychological" tendency to think in terms of using 1 as the highest or most positive value (i.e. "first"). Consequently, from a human engineering point of view, these two factors may have combined resulting in unintentional confusion on the part of the student as he responded. If so, then, the reliability of the results of Form H must be seriously questioned.³

Summary: Overall, it might be concluded that the two forms do get at basically the same information since significant correlations do exist between many items and many items do have "face" or content similarity. Yet, as previously indicated, much higher correlations might have been expected among certain items which are in fact identical.

The possibility of some systematic bias in responding as suggested by the review of individual response sheets and by the relatively low inter-correlations between forms with relatively high intracorrelations between items on the same form, limits any externsive interpretation of comparability of forms.

Factor Analysis

Theoretically, both student evaluation questionaires are designed to gather data on more than one dimension. Each question should, as far as possible, require a simple rather than a compound answer. Ideally, singularity of demensions is sought. Therefore, questions which measure each dimension and correlate highly are used to represent a dimension under investigation. The result is that a 19 or 20 item questionaire will research three or hopefully more underlying dimensions. With this theoretical model in mind, a factor analysis was performed on each of the questionaires.



In challent of the current New College questionaire, an attempt was made to avoid the problems of scaling directionality and "psychological set" by aching the state are to rete each question from A to E with A being "very good" and E "very poor".

The analysis of Form N produced two factors which were labelled (1) "Instructor inside the elegareem" and (2) "Students own effort as reflected in attendance, study time and involvement." To put this result into perspective, in factor analysis of the three previous administrations of Form N, three factors consistently emerged: (1) Instructor inside the the term of the second of the second of the second claudicon, (a) bathards proprojects, and (3) student involvement. For some reason, the first two factors rerood into one in this current evaluation. Saveral types of retation were person of in an outsign to restour the 3 dismulchality of the evaluation. However all methods produced a clear two factor structure. By interpretation, from the clustering on factor I, it is possible to separate factor I into the two original factors. This method indicates that both factors and of the same dimensionality, but that the instructor inside the classroom is a more powerful cluster than the parameters of the Commission.

The factor analysis of Form H yeilded only one factor which accounted for 66% of the variance. No variable loaded less than .61 on this factor. For want of a better name, this factor might be labelled "Did you like the instructor?" Again, by interpretation of the clustering on the factor, two additional dimensions can be hypothesized. One might be identified as the (1) instructor outside the class along with his tolerance for disagreement and the other as the (2) students own efforts.

In general, the factor analysis of Form II suggests that the questions are probably multi-dimensional and that all questions may be calling for an evaluation of one underlying dimension.

It must be remembered, that the factor analysis of Form H discussed above was done with New College students only. It would be informative to know if the same pattern holds for the University as a whole.

CONCLUSIONS AND RECOMMENDATIONS

- (1) It is recommended that New College continue to use its own form, and that with the consent of the New College faculty, make the results of individual courses available for publication assuming the University continues the policy of making public the course evaluation results. Reasons for this recommendation include the following: (a) Comparison of questions between forms suggests that there exists "face" similarity between questions and significant correlations between questions. (b) The factor analysis suggests the single dimesion emerging on Form H is roughly equivalent to the primary factor emerging on Form N, namely the "Instructor". Other reasons not mantioned so far in this analysis include: (c) the greater familiarity which the New College faculty and students have with the current familiarity which the New College faculty in program evaluation for New College.
- (2) Modifications might be made in the New College form to accomadate items which are included in the University form but not on the New College Form. These include quarient about the instruction's knowledge of graduate and express opportunities in the field, the value of laboratory experiences (where appropriate), lairness of grading, and the contribution of other students. Similarly, the University might consider adopting questions from the New College from such as the learning value of assignments and exams, helpfulness in writing skills, and "overall" ratings.



Recommendations regarding Form H

Based upon the analysis of Form H, our observations make while administering the University Form, and our own experience in developing and using course exclusion form, the following supportions are need reportion the formation to the current University form:

- (1) The scaling system slight be reversed to made it consistent with the Opscan wheet and with the normal/typical "psychological" directionality of the respondent.
- (2) All questions should use the same scaling system. The current form requires that the student change his "response set" for questions 17-19, and then revert back. This combined with problems of directionality may cause the student added direction;
- (3) The instructions are long and complicated and may contribute to fatigue and a certain "negativism" before the student even starts to answer the questions. Similarly, there is no indication at the outset as to what the purpose of the evaluation is.
- (4) The way the form is set up is somewhat awkward. That is, the positive attribute is separated by five or six spaces from the #5 (or positive response) and the negative attribute is directly adjacent to the #1. Whether this is a significant factor is difficult to judge, but it does have the effect of visually distorting the scale.
- (5) The narrative comments are separated from the objective questions. Our experience at New College has been that the narrative comments are often the most informative and valuable to the instructor. Similarly, we have found that narrative comments are most readily illicited when space is provided immediately after the "objective" questions, i.e. narrative comments about the instructor immediately following the questions about the instructor.

General Comments

The preceding points are important with regard to the technical format of the questionaire, and suggest changes which may enhance the usability and readibility of the form. However, of much greater concern is the overall reliability and validity of this or any such measure. This issue is of particular importance if the information is to be used by students in making choices of courses and/or if it is to be used by others in making important personnel decisions.

Recently, Colleges and Universities across the country have been adopting, abondoning, and experimenting with course and teacher evaluation of all types and varieties. In general, research has not kept pace with these developments (Villano, Resenstock, and Estes, 1974). Many schools have abandoned the use of evaluations because of their lack of validity or manningfulness and the findings reported in the literature are often characterized as inconsistent and contradictory (Costin, Greenough, and Menges, 1971).



Our limited analysis suggests that the University form, as it now exists, may not be effectively discriminating different characteristics or dimensions of the course and the instructor. If the results are to be used as defined, the course and the instructor of the results are to be used as defined, then the course of a given faculty member should be taken into consideration. In general, if Hofstra is going to institute a mandatory system of course evaluations, a careful evaluation of the meaningfulness and accuracy of information resulting is indeed essential.

References

- Costin, F., Greenough, W., & Menges, R. Student ratings of college teaching: realiability, validity, and usefulness. Review of Educational Research, 1971, 41(5), 511-535.
- Villano, M.W., Rosenstock, E.H. & Estes, C. A decade with a student course evaluation form at a major university. Paper presented at AERA Annual heeting, Chicago, April, 1974.



NEW COLLEGE, HOFSTRA UNIVERSITY

Course Evaluation Questionnaire

Course _		Instructor	
Session _	Month/Year	Your Academic Year	
Your Cone	entration Is this	a required course?	Grada you expect
This ques	ctionnaire is designed to eva	luste and improve New C	College courses. All
Please ra	te each of the dimensions of	this course according	to the following code:
A = Very D = Poor		B = Grad/Mall E = Very loor	C - Average Blank - Not Applicable
1	Quality of class presentati	ons, lectures and demon	strations.
2	How well did class discussi this class?	on help in the learning	experience of
3	How valuable were the assig this course topic?	med readings to you in	your studies of
4	Value of papers, projects,	problems and other addi	tional assignments.
5	Did this course have a majo you understand?	r focus? Did it have a	direction which
6	To the extent that you agre was that focus or objective	ed that this course had meaningful to you?	a major focus,
7	How valuable was the exam o	er exams as a tool to he	lp you to learn?
Comments:	Use this space to add furt seven questions which are o	ther comments you want to on specific aspects of t	o make concerning the course.
8	Overall rating of the instru	ctor inside the classro	om.
9	Availability of the instruc	tor outside of the clas	sroom.
10	Now well did the professor in a logical order that hel	present the material/coped you to learn.	ntent of the course
11	Did the course acsume an ap experience by the students?	propriate level of prio	r knowledge and/or

W	hat was the extent of learning about the field of inquiry. hat was the extent of learning about skillful writing. o what extent did you become involved in the course?
· T	
5 T	what extent did you become involved in the course?
	o what extent did you expend time and effort in studying for this ourse?
6 w	hat was your attendance in class?
omments on yo	ur Personal Involvement:
<u> </u>	<u> </u>
	verall rating of the course.
з т	o what extent were your expectations in taking the course achieved
ark <u>A</u> for eac ourse. Leave	h of the following items which were a reason for your taking the blank those items which were not reasons for your taking the cour
	eeded to meet a requirement.
0 N	eeded to prepare for a career or graduate school.
1T	he subject of the course was interesting.
2 T	he professor had a good reputation.
з т	he course was less demanding required less work.
4 T	his was the only course which fit into my schedule.
5 A	Il other reasons, please specify on the printed sheet.
	ts:

HOFSTRA UNIVERSITY

COURSE AND TEACHER EVALUATION

Questionnaire

<u>Directions</u>: Here is a list of attributes concerning either your instructor and/or your course. Read each attribute and its rating scale. When you decide on a rating, blacken the appropriate space on your answer sheet (Questions 1-22). Also fill in whether you are part or full-time (day or evening), and your student status (freshman, sophomore, etc.). In the student number box use the first three columns (left most columns) to enter your cumulative average—do not include a decimal point. In the sex box, blacken "M" if this course was required for major or for degree; and the "F" if it is not required. Use the pencil supplied and erase fully if you wish to change your answer.

Remember, at the top of each part are definitions of the scores; these <u>differ</u> for each part. Not every item is appropriate to each course; <u>inappropriate items should</u> be omitted.

	Part I - The Instructor	Score Definition 5= Perfect score 3= Average score 1= Lowest Possible Score
	The instructor's organization of subject matter was (Clear)	5 4 3 2 1 (Confusing)
2.	The organization of each class was (Well organized)	5 4 3 2 1 (Unorganized)
3.	The instructor's knowledge of the subject matter was (Outstanding)	5 4 3 2 1 (Inadequate)
4.	Did the instructor see to it that the class- room situation was conducive to discussion? (Very much)	5 4 3 2 1 (Not at all)
5.	Did the instructor see to it that the class- room situation was conducive to questioning? (Very much)	5 4 3 2 1 (Not at all)
6.	Outside of class the instructor was (Available)	5 4 3 2 1 (Unavailable)
7.	The instructor's attitude toward disagreement was (Tolerant)	5 4 3 2 1 (Intolerant)
8.	Intellectually the instructor was (Stimulating)	5 4 3 2 1 (Not at all)



			•
9.	Would you take another countries instructor?	rse with this (Definitely)	5 4 3 2 1 (Never)
10.	How much knowledge did the of graduate programs in his	field.	
		(A Great Deal)	5 4 3 2 1 (None)
11.	How much knowledge did the of career opportunities in	his field?	
		(A Great Deal)	5 4 3 2 1 (None)
	Part II - Course		Score Definition 5= Perfect Score 3= Average Score 1= Lowest Possible Score
12.	Did the course cover the ma	aterial it was	
	supposed to:	(Completely)	5 4 3 2 1 (Not at all)
13.	Has your ability to evaluat	te evidence in	
	this field increased?	(A Great Deal)	5 4 3 2 1 (Not at all)
14.	As a result of this course	your interest	
	in the subject matter has	(Increased)	5 4 3 2 1 (Decreased)
15.	The amount learned from thi	is course was	
		(A Great Deal)	5 4 3 2 1 (Nothing)
16.			
16.	course contribute to your l	nowledge of	
16.		nowledge of	5 4 3 2 1 (Not at all)
16.	course contribute to your le the subject?	nowledge of	
16.	course contribute to your l	nowledge of	5 4 3 2 1 (Not at all) Score Definition 3= Perfect Score
	course contribute to your le the subject?	nowledge of (A Great Deal)	Score Definition
17.	course contribute to your lette subject? Part IIB - Course	nowledge of (A Great Deal)	Score Definition 3= Perfect Score
17. 18.	course contribute to your he the subject? Part IIB - Course The quality of tests was	(Too Difficult)	Score Definition 3= Perfect Score 5 4 3 2 1 (Too easy)
17. 18.	course contribute to your he the subject? Part IIB - Course The quality of tests was The grading was	(Too Difficult) (Too difficult)	Score Definition 3= Perfect Score 5 4 3 2 1 (Too easy) 5 4 3 2 1 (Too easy) 5 4 3 2 1 (Too easy) Score Definition 5= Perfect Score
17. 18.	course contribute to your at the subject? Part IIB - Course The quality of tests was The grading was The level of course was	(Too Difficult) (Too difficult)	Score Definition 3= Perfect Score 5 4 3 2 1 (Too easy) 5 4 3 2 1 (Too easy) 5 4 3 2 1 (Too easy) Score Definition
17. 18.	course contribute to your at the subject? Part IIB - Course The quality of tests was The grading was The level of course was	(Too Difficult) (Too hard) (Too difficult)	Score Definition 3= Perfect Score 5 4 3 2 1 (Too easy) 5 4 3 2 1 (Too easy) 5 4 3 2 1 (Too easy) Score Definition 5= Perfect Score 3= Average
17. 18. 19.	Course contribute to your in the subject? Part IIB - Course The quality of tests was The grading was The level of course was Part III - The Stude The amount of effort you put	(Too Difficult) (Too hard) (Too difficult) ent it into this course (A Great Deal)	Score Definition 3= Perfect Score 5 4 3 2 1 (Too easy) 5 4 3 2 1 (Too easy) 5 4 3 2 1 (Too easy) Score Definition 5= Perfect Score 3= Average 1= Lowest Possible Score
17. 18. 19.	Course contribute to your in the subject? Part IIB - Course The quality of tests was The grading was The level of course was Part III - The Stude The amount of effort you pures	(Too Difficult) (Too hard) (Too difficult) ent it into this course (A Great Deal)	Score Definition 3= Perfect Score 5 4 3 2 1 (Too easy) 5 4 3 2 1 (Too easy) 5 4 3 2 1 (Too easy) Score Definition 5= Perfect Score 3= Average 1= Lowest Possible Score
17. 18. 19.	Course contribute to your in the subject? Part IIB - Course The quality of tests was The grading was The level of course was Part III - The Stude The amount of effort you pure was Were you prepared for the 1 this course began? Did the other students in the subject of the students of the studen	(Too Difficult) (Too hard) (Too difficult) at into this course (A Great Deal) evel on which (Entirely)	Score Definition 3= Perfect Score 5 4 3 2 1 (Too easy) 5 4 3 2 1 (Too easy) 5 4 3 2 1 (Too easy) Score Definition 5= Perfect Score 3= Average 1= Lowest Possible Score 5 4 3 2 1 (Nothing)
17. 18. 19.	Course contribute to your in the subject? Part IIB - Course The quality of tests was The grading was The level of course was Part III - The Stude The amount of effort you put was Were you prepared for the 1 this course began?	(Too Difficult) (Too hard) (Too difficult) at into this course (A Great Deal) evel on which (Entirely)	Score Definition 3= Perfect Score 5 4 3 2 1 (Too easy) 5 4 3 2 1 (Too easy) 5 4 3 2 1 (Too easy) Score Definition 5= Perfect Score 3= Average 1= Lowest Possible Score 5 4 3 2 1 (Nothing)

1. The following strengths impressed me most about this course/instructor:

2. The following weaknesses were evident to me about this course/instructor:

3. If the course had a lab or discussion section, please give any comments on how they helped, or how they can be improved:

4. Please make any other comments about this course, the instructor, or this evaluation questionnaire:

